Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PH-1933-PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)					
PCT/JP2004/001290	06.02.2004	30.06.2003					
International Patent Classification (IPC) or national classification and IPC							
Applicant HITACHI, LTD.							
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of	5 sheets, including	g this cover sheet.					
3. This report is also accompanied by AN	NNEXES, comprising:						
a. (sent to the applicant and t	to the International Bureau) a total of	sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
Box. b. (sent to the International E	Sureau only) a total of (indicate type and number	er of electronic carrier(s))					
	b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))						
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see							
Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items:							
l ⊠ʻ		;					
	report						
Box No. II Priority		_					
Box No. III Non-establis	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
5 7	Box No. IV Lack of unity of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain docu	Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand	Date of completion of the	Date of completion of this report					
Name and mailing address of the IPEA/JP	Authorized officer	Authorized officer					
Facsimile No.	Telephone No.	Telephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

				PC1/JP2004/001290			
Box	No. I	Basis of the report					
1.		n regard to the language, this report is based on the internationated under this item.	onal application in the langua	ge in which it was filed, unless otherwise			
			s report is based on translations from the original language into the following language				
		international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.	1)				
		international preliminary examination (Rule 55.2 and	/or 55.3)				
2.	rece	n regard to the elements of the international application, this iving Office in response to an invitation under Article 14 a report):	report is based on (replacen re referred to in this report o	nent sheets which have been furnished to the as "originally filed" and are not annexed to			
	\boxtimes	the international application as originally filed/furnished					
	Ш	the description:					
		pages		as originally filed/furnished			
		pages*	received by this Authority	on			
		pages*	received by this Authority	on			
		the claims:					
		nos.		as originally filed/furnished			
		nos.*	as amended (to	gether with any statement) under Article 19			
		nos.*	received by this Authority	on			
		nos.*	received by this Authority	on			
		the drawings:					
		sheets		as originally filed/furnished			
		sheets*	received by this Authority	on			
		sheets*	received by this Authority	on			
		a sequence listing and/or any related table(s) - see Supplen	ental Box Relating to Sequer	nce Listing.			
3.		The amendments have resulted in the cancellation of:		_			
		the description, pages					
		the claims, nos.					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as f					
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
*	If ite	m 4 applies, some or all of those sheets may be marked "sup	erseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/001290

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Claims 2, 3-6, 8-15, 17, 18, 20-24	YES			
Claims 1, 7, 16, 19	NO			
Claims 4, 6, 10-13, 15, 22-24	YES			
Claims 1-3, 5, 7-9, 14, 16-21	NO			
Claims 1-24	YES			
Claims	NO			
_	Claims 2, 3-6, 8-15, 17, 18, 20-24 Claims 1, 7, 16, 19 Claims 4, 6, 10-13, 15, 22-24 Claims 1-3, 5, 7-9, 14, 16-21 Claims 1-24			

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 10-104114 A (Nissan Motor Co., Ltd.), 24

 April 1998
 - Document 2: JP 2003-155959 A (Denso Corp.), 30 May 2003
 - Document 3: JP 2002-81349 A (Toyota Motor Corp.), 22

March 2002

Document 4: JP 8-35452 A (Hitachi, Ltd.), 06 February 1996

Claims 1 and 16

Document 1 discloses a device and a method for diagnosing evaporative leaks by means of a leak determination means that operates the pump while the evaporation purge system is shielded from the atmosphere by means of a shielding means and then determines whether or not there is a leak based upon the length of time that said pump was operated and the pressure change value after said pump is stopped.

Therefore, the inventions set forth in claims 1 and 16 lack novelty in the light of document 1 cited in the international search report.

citations and explanations supporting such statement

Thus, it would have been easy for a person skilled in the art to conceive of employing the technical feature that is disclosed in document 2 in the device for diagnosing evaporative leaks that is disclosed in document 1; therefore, the inventions set forth in claims 2 and 17 do not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Claims 3 and 18

Box No. V

Document 1 discloses a configuration wherein there is determined to be a leak in cases when the length of time that the pump was operated exceeds a maximum period that was set in advance, and a configuration wherein there is determined to be a leak in cases when the pressure change value falls below a target pressure that was set in advance.

Thus, it would have been easy for a person skilled in the art to conceive of using both of the determination conditions that are disclosed in document 1; therefore, the inventions set forth in claims 3 and 18 do not involve an inventive step in the light of document 1 cited in the international search report.

Claim 5

Document 3 discloses the feature of prohibiting the implementation of a process for determining whether or not there is a leak in cases when the change in the

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

pressure of the shielded evaporation purge system exceeds a prescribed value.

Thus, it would have been easy for a person skilled in the art to conceive of employing the technical feature that is disclosed in document 3 in the device for diagnosing evaporative leaks that is disclosed in document 1; therefore, the invention set forth in claim 5 does not involve an inventive step in the light of documents 1 and 3 cited in the international search report.

Claims 7 and 19

Document 4 discloses a device and a method for diagnosing evaporative leaks by means of a leak determination means that operates the pump while the evaporation purge system is in a shielded state and then determines whether or not there is a leak based upon the changes in the pressure during the operation of said pump and the pressure change value after said pump has been stopped for a prescribed period of time.

Therefore, the inventions set forth in claims 7 and 19 lack novelty in the light of document 4 cited in the international search report.

Claims 8 and 20

It would have been easy for a person skilled in the art to conceive of employing the technical feature that is disclosed in document 2 in the device for diagnosing evaporative leaks that is disclosed in document 4; therefore, the inventions set forth in claims 8 and 20 do not involve an inventive step in the light of documents 2 and 4 cited in the international search report.

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claims 9 and 21

Document 4 discloses a configuration wherein there is determined to be a leak in cases when the changes in the pressure during the operation of the pump exceed a prescribed pressure difference.

Meanwhile, document 1 discloses a configuration wherein there is determined to be a leak in cases when the pressure change value falls below a target pressure.

Thus, it would have been easy for a person skilled in the art to conceive of using both of the determination conditions that are disclosed in the documents in question; therefore the, inventions set forth in claims 9 and 21 do not involve an inventive step in the light of documents 1 and 4 cited in the international search report.

Claim 14

It would have been easy for a person skilled in the art to conceive of employing the technical feature that is disclosed in document 3 in the device for diagnosing evaporative leaks that is disclosed in document 4; therefore, the invention set forth in claim 14 does not involve an inventive step in the light of documents 3 and 4 cited in the international search report.

Claims 4, 6, 10 to 13, 15 and 22 to 24

The technical features that are set forth in the abovementioned claims are not disclosed or suggested in any of the documents that are cited in the international search report.

Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 15

Claim 15 cites claim 1; therefore, the content set forth therein is substantially the same as the content that is set forth in claim 6.

Claim 21

Claim 21 cites claim 7, which sets forth the invention of a device; therefore, it is unclear whether claim 21 is intended to set forth a method or a device.